

The Weekly Petroleum Status Report (WPSR) provides timely information on the petroleum supply situation in the context of historical information, selected prices, and forecasts. The WPSR is intended to provide up-to-date information to the industry, the press, planners, policymakers, consumers, analysts, and State and local governments. It is published each Thursday by the Energy Information Administration. The data contained in this report are based on company submissions for the week ending 7 a.m. the preceding Friday.

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This report was prepared by the Energy Information Administration, the independent statistical and analytical agency within the Department of Energy. The information contained herein should not be construed as advocating or necessarily reflecting any policy position of the Department of Energy or any other organization.

Highlights

Refinery Operations

Crude oil input to refineries averaged 12.0 million barrels per day for the four weeks ending March 30, 1984. Refinery capacity utilization averaged 74.5 percent during the period. During the four weeks ending March 30, 1984, motor gasoline production averaged 6.4 million barrels a day, and distillate fuel oil production averaged 2.4 million barrels a day.

Stocks

On March 30, 1984, stocks of crude oil (excluding the Strategic Petroleum Reserve) stood at 332.3 million barrels, which is about 7 percent below the level one year ago. Stocks of total motor gasoline, at 241.6 million barrels, were about 7 percent above the level one year ago. Distillate fuel oil stocks stood at 112.6 million barrels, which is about 7 percent below the level one year ago. Stocks of residual fuel oil stood at 47.5 million barrels, which is about 2 percent above the level one year ago.

imports

Net imports of crude oil (including imports for the Strategic Petroleum Reserve) and petroleum products together averaged 4.6 million barrels a day for the four weeks ending March 30, 1984, about 62 percent above the average a year ago. Gross imports of crude oil (excluding the Strategic Petroleum Reserve) averaged 3.4 million barrels a day for the four-week period ending March 30, 1984.

Products Supplied

Total petroleum products supplied averaged 15.6 million barrels a day for the four-week period ending March 30, 1984, which is about 1 percent above the rate supplied a year ago. Motor gasoline was supplied at a rate of 6.5 million barrels a day, which is about 6 percent below the rate supplied a year ago. Distillate fuel oil was supplied at a rate of 3.1 million barrels a day, about 8 percent above the rate supplied a year ago.

World Crude Oil Price

The estimated weighted average international price of crude oil as of April 3, 1984, remains at \$28.63 a barrel.

Spot Market Product Price

For the week ending March 30, 1984, the average spot market price of 98 octane gasoline on the Rotterdam market decreased 52 cents to \$32.77 a barrel; the gasoil price remained unchanged at \$34.12 a barrel, and the price of residual fuel oil decreased 15 cents to \$28.00 a barrel. On the New York market, the average spot price of 89 octane regular gasoline increased \$1.49 to \$35.87 a barrel; the price of No. 2 heating oil increased \$1.26 to \$34.76 a barrel, and the residual fuel price remained unchanged at \$28.75 a barrel.

	Four-Week Av	verages		Cumul Daily A	verages	Percent
Petroleum Supply (Thousand Barrels Per Day)	for Period		Percent Change	1984	Day 3	Change
Crude Oil Supply		0 617	0.5	£8,700	8,656	n.5
/1) Downstie Production	E8.718 3.482	8,677 2,058	69.2	3,063	2,311	32.6
(2) Net Imports (Including SPR) ²	3,462 3,443	2,031	69.5	3,054	2,286	33.6
(2) Net Imports (Including SPR)* (3) Gross Imports (Excluding SPR) (4) SPR Imports (5) Exports (6) SPR Stocks Withdrawn (+) or Added (-) (7) Other Stocks Withdrawn (+) og Added (-)	163	201		150	206	-22.7
(4) SPR Imports	E124	174	-28.7	£141	182 -200	-22.7
(5) Exports (6) SPR Stocks Withdrawn (+) or Added (-)	-163	184		-143 123	-103	
(7) Other Stocks Withdrawn (+) og Added (-)	259	240		£-66	-66	
(8) Products Supplied and Losses (9) Unaccounted-for Crude	E-67 -214	-71 134		220	262	
(10) Crude Oil Input to Refineries	12,016	10,854	10.7	11,896	10,860	9.5
						1.4
Other Supply	£1,559	1,544	1.0	E1,578	1,601	-1.4 -13.8
(11) NGL Production (12) Other Hydrocarbon Input and Alcohol Input	E41	38	6.6	F42	48 64	1.4
(12) Other Hydrocarbon Input and Alconol Input (13) Crude Oil Product Supplied	E66	.70	-6.4	£65 540	467	15.7
/14\ Decorring Gain	571	443	28.8	1,585	719	120.6
(15) Net Product Imports	1,098	770	42.5 13.1	2,059	1,419	45.1
(16) Gross Product Imports	1,581 £483	1,397 627	-23.0	£473	700	-32.4
(17) Product Exports (18) Product Stocks Withdrawn (+) or Added (-) ⁵	251	1,765		247	1,245	
(19) Total Product Supplied for Comestic Use	15,600	15,484	0.7	15,954	15,004	6.3
Deadusts Supplied				c 005	6,278	0.3
Products Supplied (2U) Motor Gasoline	6,458	6,843	-5.6	6,295 212	213	-0.6
(21) Naphtha-type Jet Fuel	220	221	-0.3 10.2	917	789	16.2
(22) Kerosene-type Jet Fyel	879	798 2,900	7.6	3,165	2,829	11.9
(23) Distillate Fuel Oil"	3,120	1,569	-6.1	1,710	1,570	8.9
(24) Residual Fyel Oll ^a	1,473 3,450	3,153	9.4	3,655	3,324	9.9
(25) Other Oils ^o		15,484	0.7	15,954	15,004	6.3
(26) Total Products Supplied	15,600	13,404				
Petroleum Stocks				00 100 100	Percent Cl Previous Week	hange from k Year Ago
(Millions of Barrels)	03/30	/84 [)3/23/84	03/30/83	Previous week	
	- 11	2.3	330.8	359.1	0.4	-7.5
Crude Oil (Excluding SPR)	24	1.6	237.0	225.8	2.0	7.0
Total Motor Gasoline		11.9	196.6	185.2	2.7	9.0 -2.0
Finished Motor Gasoline Blending Components	3	19.8	40.3	40.6	-1.4 -1.0	-6.9
Naphtha-type Jet Fuel		6.8	6.9	7.4 34.8	-0.4	~5.2
Kerosene-type Jet Fuel		33.0	33.1 115.5	120.6	-2.5	-6.6
Oistillate Fuel Oil		12.6 17.5	48.4	46.8	-1.7	1.7
Residual Fuel Oil		12.3	111.0	111.1	1.1	1.1
Unfinished 80ils Other Oils		55.0	E154.9	162.3	0.1	-4.5
utner Ulis"		• -			0.3	-2.5
Total Stocks (Excluding SPR)		41.1	1,037.6	1,067.6	0.3 0.7	25.8
Crude Oil in SPR Total Stocks (Including SPR)		91.8 32.9	389,3 1,426.8	311.5 1,379.1	0.4	3.9

mar erise ...

E=Estimate based on monthly data.

E=Estimate based on monthly data.

1 Includes lease condensate.

2 Net Imports = Gross Imports (line 3) + SPR Imports (line 4) - Exports (line 5).

3 Beginning in 1983 crude oil burned as fuel is treated as a product and a new category, crude oil product supplied, has been created. See Appendix D.

4 Includes unfinished oils and natural gas plant liquids for processing.

5 Includes an estimate of minor product stock change based on monthly data.

6 Other oils product supplied includes crude oil product supplied and the reduction for reclassified products.

7 Includes crude oil in transit to refineries.

8 Included are stocks of all other oils such as aviation gasoline, natural gas liquids (including ethane), kerosene, petrochemical feedstocks, special naphthas, lube oils, wax, coke, asphalt, road oil, and miscellaneous oils. For the current two weeks, stocks of these minor products are estimated from monthly data.

Note: Due to independent rounding, individual product detail may not add to total.

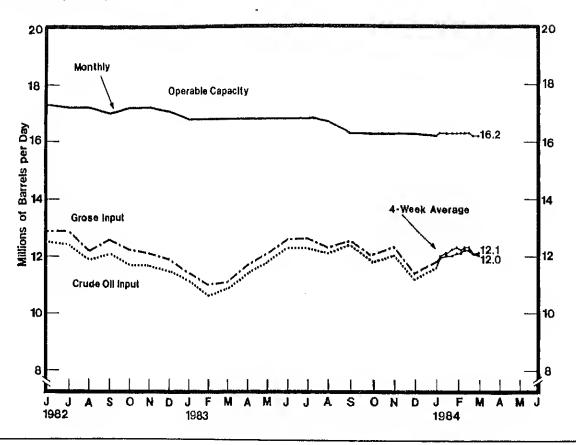
The percentages shown are calculated using unrounded numbers.

SOURCE: SOURCE:

0 1982 Annual Data: EIA, "Petroleum Supply Annual."

0 1983-1984 Monthly Data: EIA, "Petroleum Supply Monthly."

0 1984 Four-Week Averages: Estimates based on EIA weekly data.



982 Trude Oil Input	11.6	11.2	11.3	11.4	11.8	12.5	12,4	11.9	12.1	11.7	11.7	11.5
Bross Inputs	12.0	11.6	11.7	11.8	12.2	12.9	12.9	12.2	12,6	12.2	12.1	11.9
Operable Capacity	17.9	17.8	17.8	17.8	17.8	17.3	17.2	17.2	17.0	17,2	17.2	17.1
ercentage Utilization ¹	67.0	65.1	65. 5	66.2	68.8	74.9	74.9	71.0	73.9	70.6	70.6	69.7
983												
Crude Oil Input	11.1	10.6	10.9	11.4	11.8	12.3	12.3	12.1	12.4	11.8	12.0	11.2
Bross Inputs	11.4	11.0	11,1	11.7	12,1	12.6	12.6	12.3	12.5	12.0	12,3	11.4
perable Capacity	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16,7	16.3	16.3	16.3	16.3
ercentage Utilization ¹	67.9	65.4	66.0	69.3	71.6	74.9	74.9	73.7	76.5	73.4	75.2	69.8
984												
rude Oil Input	11.6											
ross Inputs	11.8											
perable Capacity	16.2											
ercentage Utilization ¹	72.9											
verage for Four-Week Po						-						
984	2/3	2/10	2/17	2/24	3/2	3/9	3/16	3/23	3/30			
rude Oil Input	11.9	12.0	12.0	12,1	12.1	12.2	12,2	12,1	12.0			
ross Input	12.0	12.1	12.2	12.3	12.2	12.3	12.3	12.1	12.1			
perable Capacity	E16.3	E16.3	E16.3	E16.3	E16,3	E16,3	E16.3	E16.2	E16.2			
ercentage Utilization ¹	73.5	74.0	74.4	75.0	74.9	75.3	76.3	74.9	740	far Shi na k		•

May

Jun

Jul

Aug

Sep

Oct

Nov

Dec

Apr

Estimate based on most recant monthly data,

Year/Product

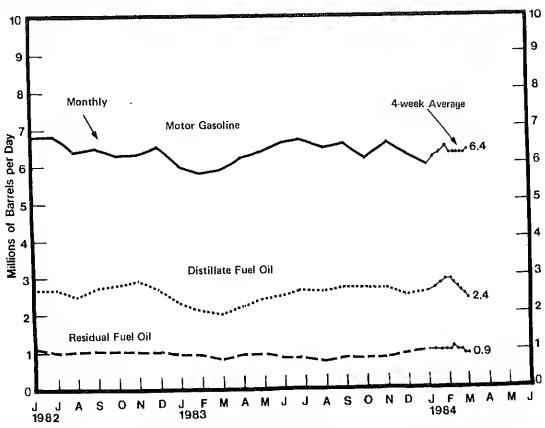
arcentege utilization is calculated as four-week average gross inputs divided by the letest reported monthly operable especity. See glossery. Percentages are calculated using unrounded numbers, area: o Monthly Date: 1982, EIA, "Petrolaum Supply Annual," 1983—1984, EIA, "Petrolaum Supply Monthly."

o Four Week Averages: Estimates based on EIA weekly data. A Tage C - America Tage - A Common America - America -

Feb

Mar

Jan



Year/Product	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1982	···							0.4	c =	6.3	6.3	6.5
Motor Gasoline	6.2	5.9	6.0	6.1	6.3	6.8	6.8	6.4	6.5		1,0	0.9
Jet Fuel	0.9	1.0	1.1	1.0	0.9	D,9	1.0	1.0	1.0	1.0	2.9	2.7
Distillate Fuel Oil	2.6	2.4	2.3	2.4	2.6	2.7	2.7	2.5	2.7	2.8	1.0	1.0
Residual Fuel Oil	1.2	1,2	1.1	1.2	1,1	1.1	1.0	1.0	1.0	1.0	1.0	1.0
1983								0.5	6.6	6.2	6.6	6.3
Motor Gasoline	6.0	5.8	5.9	6.2	6.4	6,6	6.7	6.5	6.6	6.2	1.1	0.9
Jet Fuel	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.0 2.7	2.7	2.5
Distillate Fuel Oil	2,3	2,1	2.0	2.2	2.4	2:5	2.6	2.6	2.7	0,8	0.8	0.9
Residual Fuel Oil	0.9	0.9	8.0	0.9	0.9	8.0	D.8	0.7	8.0	0,0	0,0	0.5
1984												
Motor Gasoline	6.0											
Jet Fuel	1.0						-, .					
Distillate Fuel Oil	2.6											
Residual Fuel Oil	1.0											
Average for Four-\	Neek Pe	riod Endi	ing:				0/40	0.100	0/00			
1984	2/3	2/10	2/17	2/24	3/2	3/9	3/16	3/23	3/30	_		
Motor Gasoline	6,2	6.3	6.6	6.3	6.3	6.3	6.3	6,3	6.4			
	0.9	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1			
Jet Fuel	2.7	2.8	2.9	2.9	2.8	2.7	2.6	2.5	2.4			
Distillate Fuel Oil Residual Fuel Oil	1.0	1.0	1.0	1.0	1.1	1.0	1.0	0.9	0.9			

[:] Production statistics represent net production (i.e., refinery output minus refinery input).
ce: o Monthly Data: 1982, EIA, "Petroleum Supply Annual," 1963—1984, EIA, "Petroleum Supply Monthly."
o Four Week Averages: Eximates based on EIA weekly data.

Stocks of Crude Oil and Petroleum Products, U.S. Totals (Millions of Barrels)

Year/Product	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Qer
1982		******	· · · · · · · · · · · · · · · · · · ·						· · · · · ·	·		
Crude Oil 2	371.0	371.8	360,7	354,8	348 .5	344.1	345,7	352.9	340.7	351.0	207.0	349
Motor Gasoline	260.8	256.6	246.5	221.3	213.9	218.5	22 5.9	226,9	233.6	234.4	357.6	
Finished Gasoline	2 13,2	208.4	198,1	178,6	173.1	177.1	182.7	185.2	191.1		230.0	235
8landing Components	47.6	48.3	48.5	42.7	40.8	41.4	43.2	41.8		192.4	189,3	194
Jet Fuel	36.9	36,9	42.5	44.1	41.7	39.9	39.8		42.5	42.0	40.7	40
Olstillate Fuel Oil	164.4	147.4	126.3	108.0	113.8	123.7	148.1	40.7 158.7	39,6	40.9	40.6	36
Residual Fuel Oil	68.7	58.5	58.1	53,6	69.0	60,7	58,9		161,2	170.1	185.6	178
Unlinished Oils	115.9	116.5	115,9	119.1	118,2	118.0	117.8	52.6	61.8	63.6	66.4	66
Other Oils	203,0	199.1	193.3	189.2	190,8	191.1	190.1	116.8	117.8	113,3	111.8	105
Total Stocks (Excl. SPR)	1,220.6	1,186.9	1,143.4	1,090.0	1,085,7	1,095.0	1,126,3	186.4	181,3	174.6	173.3	164
Crude Oil in SPR	235,3	241.2	248.5	265.5	281.0	254.1	267.2	1,134.9	1,136.1	1,147.8	1,165.2	1,136
Total Stocks (Incl. SPR)	1,455.9	1,428.2	1,391.9	1,345.6	1,346.7	1,360,2	1,393,5	273, 8 1,408,5	277.9 1,414.0	284.6	290.0	293
19833					.,	1,000,2	1,000,0	1,400.0	1,414.0	1,43 2 .4	1,455.2	1,429
1983												
Crude Oil 2	360,9	366.0	358.6	3 65.8	354.6	353,8	342.0	3 55, 1	351.6	351.0	341.5	343
Motor Gasoline	260.9	251.1	224. 0	220.8	224.6	223.2	230.6	226.4	229.6	228,3	235.9	222
Finished Gesoline	208.3	207.4	183,7	182.9	186.8	183,3	189,8	184.8	189.6	187.8	196.0	185
8 lending Components	42.6	43.8	40.3	37.9	37.8	39,8	40.8	41.6	40.0	40.5	39.9	36
let Fuel	41.7	40.6	42.2	40.3	41.3	41.3	41.7	40.2	41.8	43,4	39.9 45.8	38
listillate Fuel Oll	16 8 .2	147.4	118.7	103.2	109.2	113.8	131.0	143.5	164,7	163,3	161.3	140
lesidual Fuel Oil	60.7	53.1	46.3	46.6	60,9	50.1	61.9	48.3	49.7	51.4	64.5	49
Infinished Oils	110.3	108.3	111.3	114.1	112.4	110.1	107,1	110.5	112.6			
Other Olls	159.6	169,3	162,5	167.2	177.2	184.4	189.2	191.6	191.0	11 2 ,1 195,2	109.0	107
otal Stocks (Excl. SPR)	1,152.2	1,125.7	1,063.6	1,057.9	1,070,3	1,078.8	1,093.5	1,115.6	1,131.1		190.9	172
rude Oil in SPR	300.6	306.1	311.8	317.7	326,8	332,5	340,7	3 61.8	361.0	1,144.6	1,139.0	1,074
otal Stocks (Incl. SPR)	1,46 2 ,8	1,431.9	1,376.4	1,375,7	1,397.1	1,409.3	1,434.2	1,467.4	1,492.1	367.2 1,511.9	371.3 1,510.2	379 1,453
1984						·	• • • • • • • • • • • • • • • • • • • •	.,	1,102,1	1,01110	1,010.2	1,400
Crude Oil 2												
Jude Oli	348.4											
Notor Gasoline	226.6											
Finished Gasoline	185.6						•					
8tending Components	39.9											
et Fuel	3 5.6											
Distillate Fuel Oil	119.6											
tesidual Fuel Oil	46.4											
Infinished Oils	110.8											
Other Olls	160.6											
otal Stocks (Excl. SPR)	1,045.6											
rude OII in SPR	384.4											
otal Stocks (Incl. SPR)	1,430.0											
esk Ending;												
984	2/3	2/10	2/17	2/24	3/2	3/9	240	2100	0.00			
	·				012		3/16	3/23	3/30			
rude Oil ²	3 42 .4	341.6	343,7	339.6	339.5	334.9	2010					
ktor Gasolina	221.4	223,3	227.6	231.9	233.3	334.9 235,8	334.2	330.8	332.3			
Finished Gasoline	183.1	185,3	187.8	192,6	233.3 184.3		236,8	237,0	241.6			
Slending Components	38.3	. 38.0	39. 8	39.4	39,0	196.9	187.1	196,6	201.9			-
t Fuel	36.2	36,5	37.0	38.2		38.9	39.6	40,3	39.8			
istiilate Fuel Oll	116,7	117.7	125,9	132.9	38.8	39.9	40.6	40.0	39.8			
esidual Fuel Oil	41.5	43.5	46.4		129.9	128.0	121.0	116.5	112.8			
nfinished_Oils	105.7	105.5		49.2	62,6	52.8	49.1	48.4	47.6			
ther Oils 4	E1 71 ,3	E160,9	102,6	104.6	105.3	107.6	109.4	111.0	112.3			
otel Stocks (Excl. SPR)	1,035.3		E168,5	E157,2	E156.0	E156,1	E158.2	E164.9	E155,0			
rude Oil in SPR	384.8	1,037.1	1,051.7	1,053.5	1,055,4	1,054.9	1,047.3	1,037.8	1,041.1			
otal Stocks (Incl. SPR)	1,420.1	386.5 1,422.5	388.3 1,437.9	386,9 1,440.4	387.2	387.6 1.442.4	388.7	389.3	391.8			
AND GLOCKS HIEL SPRI					1,442.6		1,436.0					

E*Estimated. See Glossary for definition of "Stock Change (Refined Products)" for explanation of other oils estimate methodology.

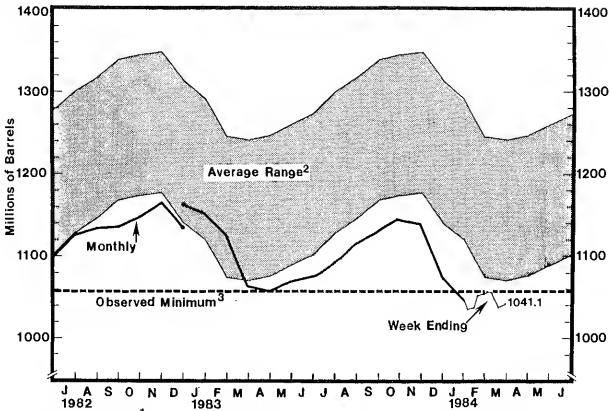
1 Product stocks include those stocks held at refineries, in pipelinas, and at major bulk terminals. Stocks held at natural gas processing plants are included in "Other Olls" and in 2 Crude oil stocks include those stocks held at refineries, in lease tanks, and in transit to refineries, and do not include those held in the Strategic Petroleum Reserve.

3 Sea Appendix D for explanation of the 1983 new stock basis.

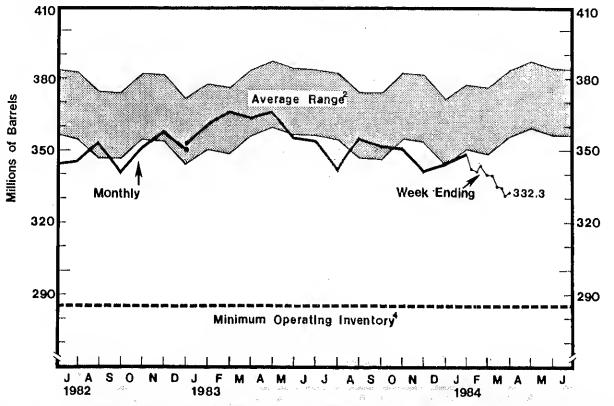
4 Weakly totals for stocks of other oils are estimated using monthly data. Other oils include kerosens, aviation gasoline, natural gas liquids including ethane, patrochemical feedstocks, special naphthas, tube oil, wax, coke, asphalt, road oil, and miscellaneous oils.

Source: a Monthly Data: 1982, EIA, "Petroleum Supply Annual," 1983—1984, EIA, "Petroleum Supply Monthly."

a Week-Ending Stocks: Estimates based on EIA weekly data.



Stocks of Crude Oil, U.S. Total Millions of Barrels)



¹ Excludes stocks hald in the Stretagic Petroleum Reserva and includes cruda oil in trensit to refineries. Sea Appendix D for explanation of the 1983 new stock basis.

2 Average lavel, width of average range, and observed minimum are based on three years of monthly data: July 1989—June 1983. The seasonal pettern is based on seven years of monthly strength 1976—December 1982. See Appendix B for further explanation.

a The observed minimum for total stocks in the last three-year pariod July 1980—Juna 1983, was 1057.9 million barrels. It occurred in April 1983. See Appendix B for further explanation.

4 The National Petrolaum Council (NPC) defines the Minimum Operating Inventory as the invantory level below which operating problems and shorteges would begin to appear in a defined distribution lent. In its 1983 study, the NPC estimated this inventory level for grude oil to be 285 million barrels. See Appendix B for further explanation.

Source: o Ranges and Seasonal Patterns: 1978—1880, EIA, "Petrolaum Supply Annual," 1983—1984, EIA, "Patrolaum Supply Monthly."

o Monthly Data: 1982, EIA, "Petrolaum Supply Annual," 1983—1984, EIA, "Patrolaum Supply Monthly."

Stocks of Motor Gasoline by Petroleum Administration for Defense District (Millions of Barrels)

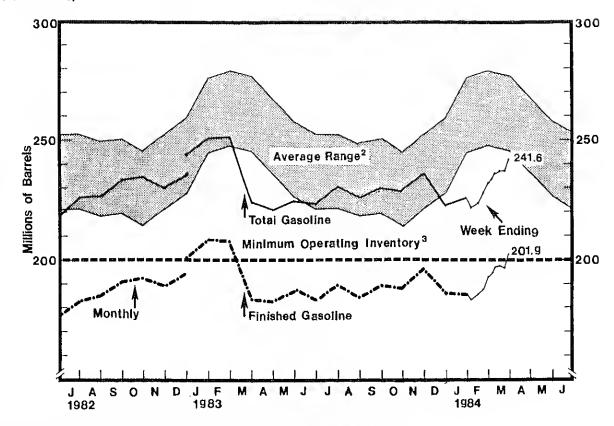
Year/District	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1982									· · · · · · · · · · · · · · · · · · ·			
Finished Gasoline	213.2	208.4	198.1	178.6	173.1	177.1	182.7	185.2	191.1	192.4	189.3	194.4
Blending Components	47.6	48.3	48.5	42.7	40.8	41.4	43.2	41.8	42.5	42.0	40.7	40.9
Total Gasoline	260.8	256.6	246.5	221. 3	213.9	218.5	225.9	226.9	233.6	234.4	230.0	
East Coast (PAD 1)	71.9	69.7	66.8	61.4	63.6	65.5	63.1	62.5	63.5	63.5	66.1	235.4
Midwest (PAD 2)	77.7	78.4	74.0	62.7	56.1	56.4	62.8	65.8	69.3	67.0		67.5
Gulf Coast (PAD 3)	70.2	69.3	68.0	63.2	63.5	64.9	66.0	65.2	67.5		64.0	65.3
Rocky Mountain (PAD 4	9.6	9.9	10.1	9.0	7.7	6.5	5.8	5.5		69.8	65.5	66.2
West Coast (PAD 5)	31.4	29.3	27.6	25.0	23,2	25. 3	28.1	27 . 9	5.7 27.7	6.5 27.6	7.1 27.2	8.5 27. 9
1983 ¹									2	27.0	27.2	21.3
Finished Gasoline	208.3	207.4	183.7	182.9	100.0	400.0	4000					
Slending Components	42.6	43.8	40.3	37.9	186.8	183.3	189.8	184.8	189.6	187.8	196.0	18 5 .5
Total Gasoline	250.9	251.1	224.0		37.8	39.9	40.8	41.6	40.0	40.5	39.9	36.9
East Coast (PAD 1)	69.9	66.0	55.4	220.8	2 24.6	223.2	230.6	226.4	229.6	228.3	235.9	222.4
Midwest (PAD 2)	75.3	77.2		60.8	63 .6	61.3	64.3	62.6	64.1	61.7	63.5	63.8
Gulf Coast (PAD 3)	65.0		68.3	65.4	64.6	63.7	64.6	64.8	65.7	65. 3	68.4	63.7
Rocky Mountain (PAD 4)	9.4	66.6	66.3	62.7	64.0	64.7	65.1	62,3	65.0	68.0	70.0	60.1
West Coast (PAD 5)		9.4	8.3	7.9	7.4	6.7	6.4	5.9	5.9	6.3	7.4	7. 7
sor Goust (I MB 3)	31.3	3 1.9	25.8	24.1	25. 0	28.9	3 0.2	30.8	29.0	27.1	26.6	2 7. 0
1984												1
Finished Gasoline	185.5											
Slending Components	39.9											
Total Gasoline	225.5											
East Coast (PAD 1)	61.4											
Midwest (PAD 2)												
Gulf Coast (PAD 3)	63.2											
Rocky Mountain (PAD 4)	62.6											
West Coast (PAD 5)												
West Coast (FAD 5)	29.9											
Week Ending:												
1984	2/3	2/10	2/ 17	2/24	3/2	3/9	3/16	3/23	3/30			
Finished Gasoline	183.1	105.2	107.0									
Blending Components	38.3	185,3 38.0	187.8	192.5	194 .3	196. 9	197.1	196.6	201.9			
Tar. 1 (2)	221,4		39.8	39.4	39.0	38.9	39.6	40.3	39.8			
East Coast (PAD 1)		223.3	227.6	231.9	233.3	235. 8	236.8	237.0	241.6			
Midwest (PAD 2)	61.9	62.2	62.3	6 3 .8	64. 3	65.9	65.1	63.7	65.3			
Gulf Coast (PAD 3)	61.7	61.9	64.8	65.3	66.4	70.0	69.0	69.9	70.1			
Rocky Mountain (PAD 4)	61.1	62.9	63.3	65.5	6 6.0	63,9	67.3	69.1	71.2			
		0.1	0.0	0.0			4110	00.1	11.2			
West Coast (PAD 5)	8.0 28.8	8.1 28.2	8.3 28.9	8.2	8.7	8.6	8.8	8.7	9.0			

Year/District

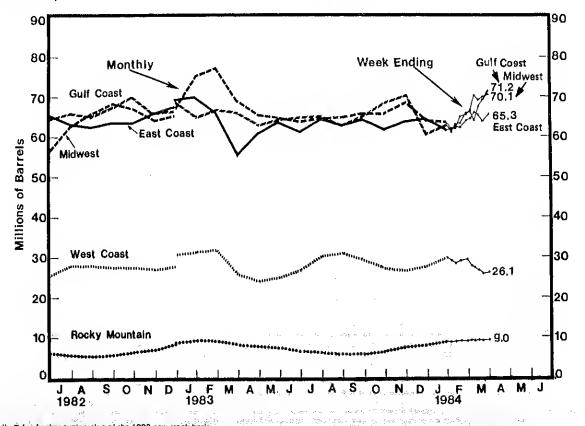
¹ See Appendix D for explanation of the 1983 new stock basis.

Note: PAD district data may not add to total due to independent rounding.

Source: o Monthly Data: 1982, EIA, "Petroleum Supply Annual," 1983–1984, EIA, "Petroleum Supply Monthly." o Week-Ending Stocks: Estimates based on EIA weakly data.



Stocks of Motor Gasoline by Petroleum Administration for Defense District¹ (Millions of Barrels)



¹ See Appendix D for further explanation of the 1993 new stock basis.
2 Average level and width of everage range for total motor gasoline are based on three years of monthly date: July 1990—June 1993. The sessonal pattern is based on six years of monthly date: 1976 and 1978—1992. See Appendix 9 for further explanation.
3 The Netional Petroleum Council (NPC) delines the Minimum Operating inventory as the Inventory level below which operating problems and shortages would begin to appear in a delined distribution system. In its 1993 study, the NPC astimated this inventory level for motor assoline to be 200 million barrels. See Appendix 9 for further explanation.

Source: o Renges and Sessonal Petterns 1976—1980, EIA, "Petroleum Statement, Annual (Final Summary)," 1991—1982, EIA, "Petroleum Supply Annual."

o Monthly Date: 1992, EIA, "Petroleum Supply Annual," 1993—1984, "Patroleum Supply Monthly."

o Week-Ending Stocks: Estimates besed on EIA weekly date.

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Stocks of Distillate Fuel Oil by Petroleum Administration for Defense District (Millions of Barrels)

Mar

Apr

Feb

Jan

				•	•	-			- •			
1982			· · · · · · · · · · · · · · · · · · ·									
Total U.S.	164.4	147.4	126.3	108.0	113.6	123.7	148.1	158.7	161.2	170.1	185.6	178.6
East Coast (PAD 1)	68.3	60.3	44.7	35.0	39.1	44.2	57.4	63.9	68.0	75.7	88.7	80.6
Midwest (PAD 2)	46.7	43.1	39.5	30.8	30.8	33.7	42.6	45.5	45.6	44.2	45.3	47.0
Gulf Coast (PAD 3)	31.0	26 .8	27.6	28.5	31.1	32.6	34.1	35.6	34.0	37.0	36.9	34.2
Rocky Mountain (PAD 4)	4.1	3.9	3.7	3.1	2.8	3.0	3.4	3,5	3.5	3.5	3.5	4.0
West Coast (PAD 5)	14.2	13.3	10.8	10.5	9.8	10.2	10.6	10.2	10.1	9.6	11.3	12.7
1983 ¹												
Total U.S.	100.0	147.4	1107	4000	400.0							
East Coast (PAD 1)	168.2 71.1	147.4	118.7	103.2	109.2	113,8	131.0	143.5	154.7	163.3	161.3	140.4
Midwest (PAD 2)	47.2	55.3 46.4	38.1	31.8	37.2	41.1	50.9	61.9	6 7.5	74.6	70.8	57. 8
Gulf Coast (PAD 3)	31.7	28.9	39.0 27.2	33.3	30.4	29.6	33.6	36.7	39.1	40.8	4 2 .7	40.3
Rocky Mountain (PAD 4)	4.1	4.0	3.3	26.0	28.8	29.7	32.5	31.3	34.7	34.6	33.8	27.8
West Coast (PAD 5)	14.1	12.8	3.3 11 . 1	2.8	2.9	2,8	3.0	3.0	2.7	2.6	2.8	3.3
	1.71	12.0	11.1	9.4	9.9	10.6	11.0	10.6	10.8	10.7	11.2	11 .2
1984												
Total U.S.												
East Coast (PAD 1)	119.5											
Midwest (PAD 2)	43.4											
Gulf Coast (PAD 3)	37.1											
Rocky Mountain (PAD 4)	24.7											
West Coast (PAD 5)	٠, ,											
Hast Coust (I AD 5)	10.8											
Week Ending:												
1984	2/3	2 /10	2/17	2/24	3/2	3/ 9	3/16	3/23	3/30			
Total U.S.	1107	1177	405.5					-, -0	-,			·
East Coast (PAD 1)	116.7	117.7	125.9	132.9	129.9	128.0	121.0	115.5	112.6			
Mid west (PAD 2)	40.1 36.7	41.5	46.0	52. 8	51.5	49.6	44.7	41.5	37.7			
Gulf Coast (PAD 3)	26.6	36.3	37.0	38.0	37.3	36.3	3 5.5	34.7	33.7			
Rocky Mountain (PAD 4)	3.0	26.7 2.9	29.2	28.7	27.8	28.0	26.6	25.2	26.9			
West Coast (PAD 5)	10.3	2.9 10.3	3.0	3.1	3.0	3.1	3.3	3.1	3.3			
	10.0		10.6	10.3	10.3	11.0	10.9	11.0	1 1.0			
												

May

Jul

Sep

Aug

Oct

Nov

Dec

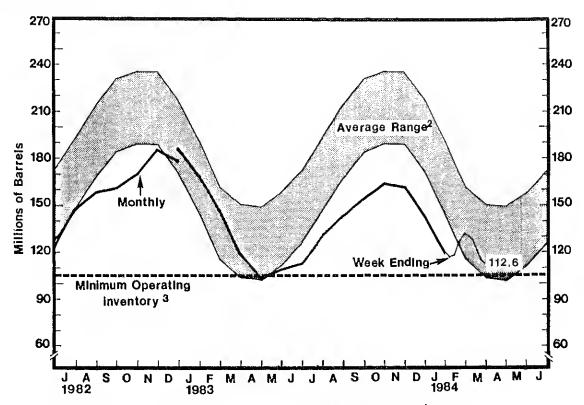
Year/District

¹ See Appendix D for explanation of the 1983 new stock basis.

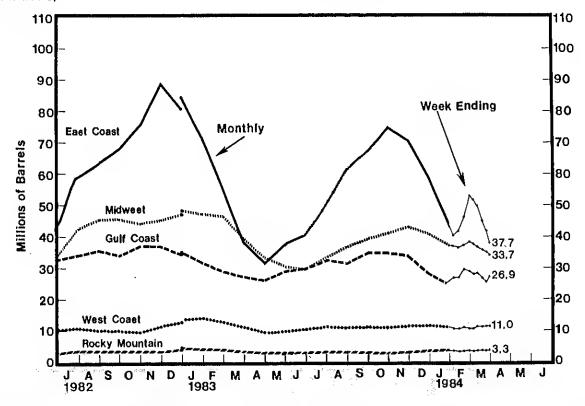
Note: PAD district data may not add to total due to independent rounding.

Source: a Monthly Data: 1982, EIA' "Petroleum Supply Annual," 1983- 1984, EIA, "Petroleum Supply Monthly."

a Week-Ending Stocks: Estimates based on EIA weekly data.



Stocks of Distillate Fuel Oil by Petroleum Administration for Defense District^T (Millions of Barrels)



¹ See Appendix D for explenation of the 1983 new stock basis.
2 Average level and width of everage range are based on three years of monthly data: July 1980—June 1983. The seasonal pattern is based on seven years of monthly data: January 1976—December 1982, See Appendix 6 for further explanation.
3 The National Petroleum Council (NPC) defines the Minimum Operating Inventory as the inventory level below which operating problems and shortages would begin to appear in a defined distribution system. In its 1883, study, the NPC estimated this inventory level for distribution system. In its 1883, study, the NPC estimated this inventory level for distribution system. In its 1883, study, the NPC estimated this inventory level for distribution barrels. See Appendix 8 for further explanation.

Source: o Ranges and Seasonal Petterns 1976—1980, E1A, "Petroleum Stetement Annuel, (Final Summary)," 1981—1982, E1A, "Petroleum Supply Annual," o Monthly data: 1982, E1A, "Petroleum Supply Annual," o Week-Ending Stocks: Estimates based on EIA weekly data.

Stocks of Residual Fuel Oil by Petroleum Administration for Defense District (Millions of Barrels)

Feb

Mar

Apr

Jan

1982					· · · · · · · · · · · · · · · · · · ·							
Total U.S	68.7	58.5	58.1	53.6	59.0	60.7	58.9	52.6	61.8	63.6	66.4	66,2
East Coast (PAD 1)	32.2	25.0	25.0	23.4	28.3	28.2	27.1	23.1	29.0	32.8	36.4	34.7
Midwest (PAD 2)	7.7	7.3	7.0	6.2	6.0	5, 6	5. 7	5.2	5.7	5.1	5.0	5.2
Gulf Coast (PAD 3)	17.7	14.7	14.7	13.5	15.0	17.1	16.4	15.5	16.2	15.6	16.1	16,3
Rocky Mountain (PAD 4)		0.7	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.6
West Coast (PAD 5)	10.3	10.8	10.9	10.0	9.2	9.3	9.3	8.4	10.4	9.6	8.4	9.3
1983 ¹												
Total U.S.	60.7	53.1	46,3	46.6	50.9	50.1	51.9	48.3	49.7	51.4	54.5	49.1
East Coast (PAD 1)	29.9	25.1	20.6	20.3	23.8	24.0	25.3	23.8	23.5	25.3	29.3	25,0
Midwest (PAD 2)	5.0	4.5	3.6	3,4	3.5	3.7	3.7	3.7	3.5	3.8	3.6	4.0
Gulf Coast (PAD 3)	16.3	14.0	12.8	13.4	14.5	13.5	13.8	13,3	13.8	13.6	12.5	11.5
Rocky Mountain (PAD 4)	0.5	0.4	0.4	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5
West Coast (PAD 5)	9.0	9.1	8.9	9. 0	8.5	8.4	8.6	7.1	8.4	8.3	8.6	8.2
1984												
Total U.S.	45.4											
East Coast (PAD 1)	45.4 21.0											
Midwest (PAD 2)	3.6											
Gulf Coast (PAD 3)	11.8											
Rocky Mountain (PAD 4)	0.4											
West Coast (PAD 5)	8.7											
147 1 2 11												
Week Ending:												
1984	2/3	2/10	2/17	2/24	3/2	3/9	3/16	3/23	3/30			
Total U.S.	41.5	43.5	46. 4	49.2	52. 6	52.6	49.1	48,4	47.5	7 / 7 /		
East Coast (PAD 1)	18.9	19.5	21.8	23.8	27.4	27.3	25.3	25.0	47.5 25.1			
Midwest (PAD 2)	3.8	4.1	4,3	4.1	4.2	4.5	4.4	4.1	4.1			
Gulf Coast (PAD 3)	10.6	11.2	11.5	11.4	12.0	11.4	10.6	9.4	9.4			
Rocky Mountain (PAD 4)	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6			
West Coast (PAD 5)	7.8	8.2	8.3	9.3	8.5	9.0	8.4	9.4	8.5			

May

Jul

Aug

Jun

Oct

Nov

Dec

Sep

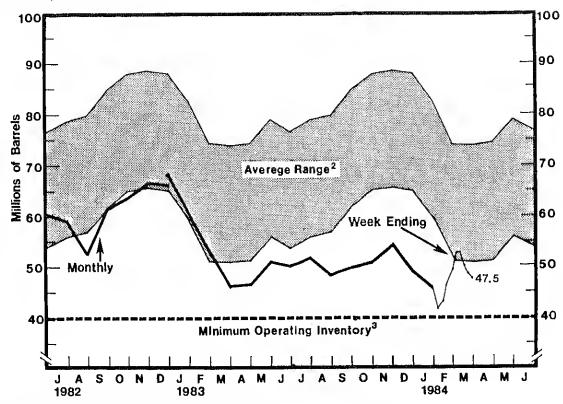
Year/District

¹ See Appendix D for explanation of the 1983 new stock basis.

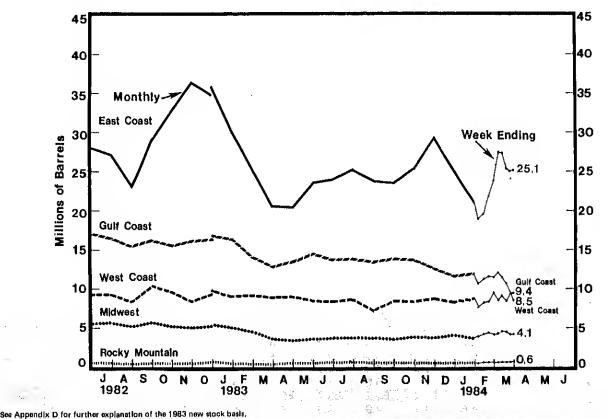
Note: PAD district data may not add to total due to independent rounding.

Source: o Monthly Data: 1982, EIA, "Petroleum Supply Annual," 1983–1984, EIA, "Petroleum Supply Monthly."

o Week-Ending Stocks: Estimates based on EIA weekly data.



cks of Residual Fuel Oil by Petroleum Administration for Defense District¹ llions of Barrels)



I See Appendix D for further explanation of the 1983 new stock basis,

2 Average level and width of average range era besed on three years of monthly date;

lary 1876—Decamber 1882. See Appendix B for further explanation.

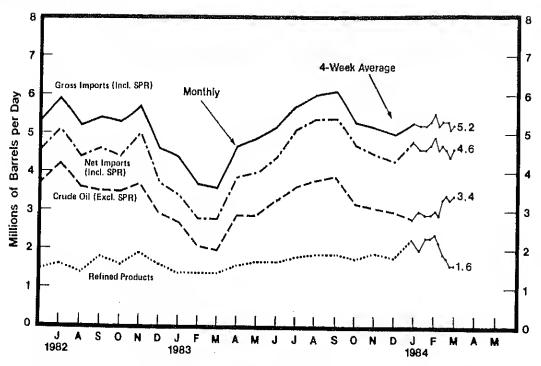
3 The National Petroleum Council (NPC) defines the Minimum Operating Inventory es tha inventory level below which operating problems and shortages would begin to appear in a defined ibution; systems in its 1983 study, the NPC estimated this invantory level for residual fuel oil to be 40 million berreis; see Appendix 8 for further explanation.

Source: o Ranges and Seesonal Patterns 1878—1980, EIA, "Petroleum Statement Annual-(Finel Summary)," 1881—1982, EIA, "Petroleum Supply Annual,"

o Monthly Data: 1982, EIA, "Petroleum Supply Annual," 1883—1884, EIA, "Petroleum Supply Monthly."

o Week-Ending Stocks: Estimates based on EIA weekly data.

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Year/Product	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1982												
Crude Oil (Excl. SPR)	3.5	2.8	2.7	2.7	3.1	27	4.0					
SPR	0.2	0.2	0.2	0.2		3.7	4.2	3.6	3.5	3.5	3.7	2,9
Refined Products	1.6	1.8	1.6		0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.1
Gross Imports (Incl. SPR)	5.3			1.5	1.5	1.5	1.6	1.4	1,8	1.6	1,9	1.6
Total Exports		4.8	4.5	4.4	4.8	5.3	5.9	5.2	5.4	5.3	5.7	4.6
Net Imports (Incl. SPR)	0.8	0.8	0.9	8.0	8.0	0.7	0.7	0.9	8.0	0.9	8.0	0.9
Net Imports (mci. 5PR)	4.5	4.0	3.6	3.6	4.0	4.6	5.1	4.4	4.6	4.4	5.0	3.7
1983												
Crude Oil (Excl. SPR)	2.7	0.1	0.0	0.0								
SPR		2.1	2.0	2.9	2.9	3.3	3.6	3.8	3.9	3.2	3.1	3.0
Refined Products	0.2	0.2	0.2	0.2	0 .3	0.2	0.3	0.4	0.3	0.2	0.2	0.2
Gross Imports (Incl. SPR)	1.4	1.4	1.4	1.6	1.7	1.7	1.8	1.9	1.9	1.8	1.9	1.8
Total Exports	4.4	3.7	3.6	4.7	4.9	5.2	5.7	6.0	6.1	5.3	5.2	5.0
	1.0	0.9	8.0	8.0	8.0	8.0	0.6	0.7	0.7	0.6	0.7	0.6
Net Imports (Incl. SPR)	3.4	2.8	2.8	3.9	4.0	4.4	5.1	5.4	5.4	4.7	4.5	4.3
1984										•••	-110	-710
Crude Oil (Excl. SPR)	20											
SPR	2.8											
Refined Products	0.2											
	2.3											
Gross Imports (Incl. SPR)	5.3											
Total Exports [†]	0.6											
Net Imports (Incl. SPR)	4.8											
Average for Four-Week Perio	d Ending	:							:			

1984	2/3	2/10	2/17	2/24	3/2	3/9	3/16	3/23	3/30
Crude Oil (Excl. SPR) SPR Refined Products Gross Imports (Incl. SPR) Total Exports ¹ Net Imports (Incl. SPR)	3.0 0.1 2.0 5.2 E0.6 4.6	2.9 0.1 2.3 5.2 E0.7 4.6	2.9 0.1 2.3 5.3 E0.7 4.7	3.0 0.1 2.4 5.5 E0.7 4.9	2.9 0.1 2.2 5.2 E0.7 4.6	3.3 0.1 1.9 5.3 E0.7 4.7	3.4 0.1 1.8 5.3 E0.6 4.6	3.3 0.1 1.6 5.1 E0.6 4.4	3.4 0.2

E*Estimete based on most recent monthly date available.

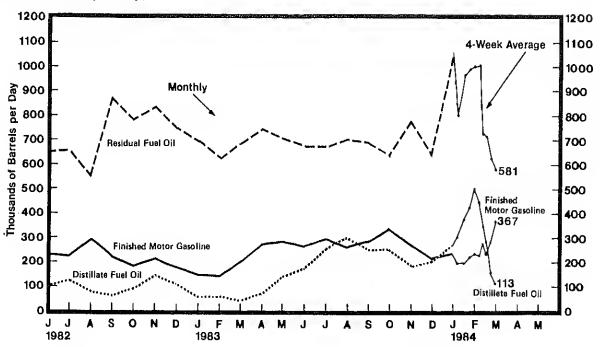
I includes exports of crude oil and refined petroleum products. Exports of crude oil are prohibited under normal circumstances. Some crude oil, is shipped to Canada in exchange on a Note: Detail data may not add to total due to independent rounding.

Source: a Monthly Date: 1982, EIA, "Petroleum Supply Annual," 1983—1984, EIA, "Petroleum Supply Monthly."

o Four Week Averages: Estimates based on EIA weekly date.

Imports of Petroleum Products by Product (Thousands of Barrels per Day)

Vany/Dyaduat



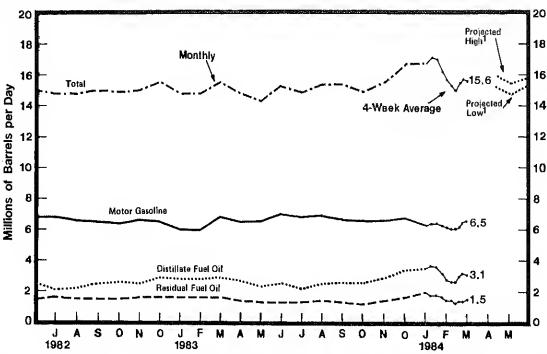
Year/Product	Jan	Feb	Mar	Apr	May	, Jun	Jui	Aug	Sep	Oct	Nov	Dec
1982												
Finished Motor Gasoline	128	133	183	185	182	230	2 25	291	223	185	211	1 7 8
Jet Fuel	10	62	39	47	31	3	31	26	30	20	40	7
Distillate Fuel Oil	97	132	48	59	74	102	125	80	61	91	146	109
Residual Fuel Oil	831	956	912	788	742	652	657	55 0	872	783	836	747
Other ¹	573	533	427	449	474	5 0 4	604	445	592	557	650	564
19 83												
Finished Motor Gasoline	148	142	205	273	284	2 65	2 97	260	285	335	269	217
Jet Fuel	27	8	35	15	35	25	22	22	41	49	18	17
Distillate Fuel Oil	58	58	42	73	141	175	259	302	253	255	189	212
Residual Fuel Oil	691	532	686	743	709	676	682	7 0 5	690	634	777	646
Other ¹	510	583	429	486	495	575	563	574	597	538	603	680
1984												
Finished Motor Gasoline	233											
Jet Fuel	60											
Distillate Fuel Oil	270											
Residual Fuel Oil	1,061											
Other ¹	695											
Average for Four-Week Pe	riod End	ling:										
1984	2 /3	2/10	2/17	2/24	3/2	3/9	3/16	3/23	3/30			
Finished Motor Gasoline	198	197	222	237	231	276	234	287	367			
Jet Fuel	95	120	5 . 110	: 118	. 94	70	58	38	46			
Distillate Fuel Oil	305	384	426	502	449	347	. 285	160	113		·	
Residual Fuel Oil	803	971	992	1,001	1,004		714		581			
Other ¹	629	∌.: 583	557	536	458	629	512	536	476			

¹ Includes imports of kerosene, unfinished oils, motor gasolina blending components, Ilquefied petroleum gasss and other oils.

Source: o Monthly Data: 1982, EIA, "Petroleum Supply Annual," 1983-1984, EIA, "Petroleum Supply Monthly," o Four Weak Averages: Estimates based on EIA weekly data.

F-1-

etroleum Products Supplied Millions of Barrels per Day)



ear/Product	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
982				·		<u>.</u>						
Aotor Gasoline	6.0	6.2	6.5	6.9	6.7	6,8	6.8	6.6	6.5	6.4	6,6	6.5
et Fuel	1.0	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1
Pistillate Fuel Oil ²	3.5	3.1	2.9	3.0	2.4	2.5	2.1	2.2	2.5	2.6	2,5	2.9
Residual Fuel Oil ²	2.2	2.3	1.9	1.9	1.6	1.5	1.6	1.5	1.5	1.5	1.6	1.6
ther	3.5	3.3	3.3	3.2	3.2	3.2	3.4	3.5	3.5	3.4	3.3	3.4
otal	16.1	16.0	15.6	16.0	14.8	15.0	14.8	14.8	15.0	14.9	15.0	15.5
983												
1otor Gasoline	6,0	6.0	6.8	6,5	6,5	7.0	6.8	6.9	6.7	6.6	6.6	6.8
et Fuel	0.9	1.0	1.0	1.1	1.0	1.1	1.0	1.1	1.1	1.0	1.0	1.2
istillate Fuel Oil ²	2.8	2.8	2.9	2.7	2.3	2.5	2.2	2.5	2.6	2.6	2.9	3.4
lesidual Fuel Oil ²	1.6	1.6	1.6	1.4	1.3	1.3	1.3	1.4	1.3	1.2	1.4	1.6
Other	3.5	3.3	3.2	3.1	3,1	3.4	3.6	3.5	3,7	3,5	3,7	3,7
otal	14.8	14.8	15.5	14.8	14.3	15.3	14.9	15.4	15.4	14.9	15.5	
-			, 5,0		1-7.0	10,0	14,3	10,4	10.4	14.8	10.0	16.7
984												
I_4O U	0.0											

Aotor Gasoline et Fuel Distillate Fuel Oil² Residual Fuel Oil² 3,5 2.0 **Other** 3.8 o tal 16.7

Average for Four-Week Period Ending:

984	2/3	2/10	2/17	2/24	3/2	3/9	3/16	3/23	3/30		
Motor Gasoline	6.4	6.4	6,3	6.2	6.1	6.1	6.2	6.4	6.5		
et Fuel	1.2	1.3	1.2	1.1	1.1	1.0	1.0	1.1	1,1		
Distillate Fuel Oil ²	3.7	3,6	3.2	2.8	2.7	2.7	3.0	3.2	3.1	,	
Residual Fuel Oil ²	1.8	1.8	1.7	1.5	1.5	1.3			1.5 S		
Other	4.0	4.0	3.8	3.9	3.8	3.9	3.9		3.6	46	
Cotal	17.1	17.0	16.2	16.7	15,3	15.0	15.5	15.7	15.0	Wasan sa	

^{1.} Projected. See Appendix C for explanation of derivation of values.
2. Beginning in 1983, crude oil burned as residual fuel oil or distillata fuel oil is no longer reported to EIA and therefore is not included in 1983 product supplied calculations for these fuels be product supplied sades for distillate and residuel fuel oil for 1982 shown on this page are the values published in 1982 EIA publications and include crude oil transfers fabout 48 thousand stress per day for residual fuel oil othousand barrels per day for distillate fuel oil). See Appendix D for further explanation.

Note: Ostal data may not add to total due to independent rounding.

Source: o Monthly Ostat: 1982, EIA, "Petroleum Supply Annual," 1983—1984, EIA, "Petroleum Supply Monthly."

o Four Week Averages: Estimates based on EIA weekly date.

o Projections: EIA, Office of Energy Markets and End Use (February, 1984).

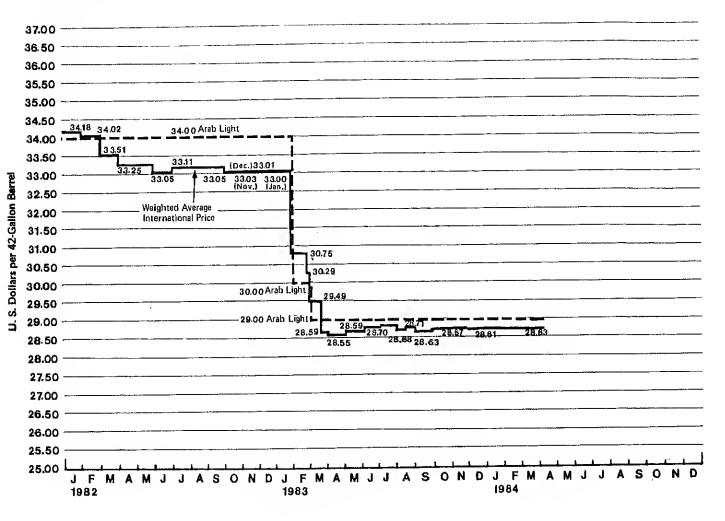
Year/Product	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1982									****			
Motor Gasoline												
Leaded Premium	145.6	143.8	140.7	136.8	137.9	140.8	145.0	145. 8	144.1	141.3	141.2	137.2
Leaded Regular	128.5	126.0	120.6	114.8	116.8	1 2 4.2	126.3	125.4	123.6	121.9	120.7	118.1
Unleaded Premium	146.6	144.8	140.8	135.1	135.5	141.8	144.3	143.9	142.9	142.1	141.2	139.4
Unleaded Regular	135.8	133.4	128.4	122.5	123.7	130.9	133.1	132.3	130.8	129.5	128.3	126.0
All-types	134.1	131.8	126.8	121.0	122.4	129.6	131.8	131.0	129.5	128.0	126.8	124.4
Residential Heating Oil	122.0	120.7	115.3	113.2	114.3	116.2	115.8	115.9	115.2	119.6	121.6	119.7
1983												
Motor Gasoline												
Leaded Premium	135.3	131.8	127.4	132.1	137.6	142.9	144.6	143.7	140.5	1 37.2	135.6	138.1
Leaded Regular	114.6	109.9	106.4	113.1	117.7	119.7	120.7	12 0.3	118.9	117.2	115.6	114.6
Unleaded Premium	137.6	133.8	130.8	138.0	139.7	141.1	142.1	141.9	141.0	139,5	138.4	137.6
Unleaded Regular	122.8	118.7	115.1	121.5	125.9	127.7	128.8	128.5	127.4	125.5	124.1	123.1
All-types	121.3	117.0	113.6	119.8	124.3	126.1	1 2 7.2	126,9	125.7	123.9	122.4	121.5
Residential Heating Oil	114.7	111.4	104.9	103.5	1 04. 8	106.0	105.0	104.9	105.7	106.0	106.0	R106.7
1984												
Motor Gasoline ²												
Leaded Regular	113.1	112.5										
Unleaded Premium	136.9	136.1										
Unleaded Regular	121.6	120.9										
All-types	120.0 P114.4	119.3										
Residential Heating Oil												

(Dollars per Barrel)

Year/Type	Jen	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec
1982		······································										
Domestic	33,39	32.71	31.08	30.27	30.37	30.79	30.92	30.85	30.76	31.38	31.67	30,80
Imported	35.54	35.48	34.07	32.82	32,78	33.79	3 3,44	32.95	33.03	33.28	33.09	32.86
Composite	33.95	33.40	31.81	30.83	31.02	31.74	31.74	31.45	31.40	31.98	3 2 .07	31,29
1983												
Domestic	30.65	29.16	28.69	28.45	28.68	28.67	28.74	28.58	28.69	28.88	28.76	28,62
Imported	31.40	30.76	28.43	27.95	28.63	29.23	28.78	29.50	29.64	29.67	2 9 .09	29.30
Composite	30.73	29.49	28.64	28.33	28.64	28.85	28.76	28.88	28.97	29.14	28.85	28.83
19 84												
Domestic	28.62											
Imported	28.80											
Composite	28.67											

Source: • Form E[A-14, "Refiners Monthly Cost Report."

World Crude Oil Prices¹ (Dollars per Barrel)



¹ Internationally traded oil only. Average price (FOB) weighted by estimated export volume.

World Crude Oil Prices1 (Dollars per Barrel)

	Type of								t Change Price From
Country	Cruds/ API Gravity	Current Price	in Effect 1 Jan 83	In Effect 1 Jan 82	in Effect 1 Jan 81	In Effect 1 Jan 80	In Effect 31 Oec 78	In Effect 1 Jan 80	In Effect 31 Oec 78
OPEC									
Saudi Arabia	Arabian Light 34 ⁰ (Bench mark crude)	29.00	34.00	34.00	32.00	26.00	12.70	11.5	128.3
	Saudi Berri 390	29.52	34,52	35.40	33.52	27.52	13.23	7.3	1 23.1
	Arebian Heavy 270	26.00	31.00	31.00	31.00	25.00	12.02	4.0	116.3
Abu Ohabi	Murban 390	29.56	34.56	35.50	36,56	29.56	13.26	0	122.9
Abu Onabi Oubai	Fateh 320	28. 0 6	33,86	33.86	35.93	27.93	12.64	3.3	128.3
	Dukhan 40°	29.49	34.49	35.45	37.42	29.42	13.19	0.2	123.6
Oatar	DUKNAN 4U	28.00	31.20	34.20	37.00	30.002	13.45	· 6.7	108.2
ran	Iranian Light 34°	29.83	34. 0 3	34.93	37,50	29.29	13,17	1.8	1 2 6.5
lraq	Kirkuk 36 ⁶		32,30	32.30	35,50	27.50	12,22	∙0.7	123.4
Kuweif	Kuwait Bland 31 ⁰	27.30	31.03	31.03	25.20	27.20	12.03	.4.3	116.4
Veutral Zone	Khafji 28 ⁰	26.03		37.00	40,00	33.00	14.10	·7.6	116.3
Algeria	Saharan 440	30.50	35.50	36.50	40.00	29.97	15.12	0.1	98.4
Vigeria	Ronny 1 iaht 37°	30.00	35.50		40.78	34.50	13.60	-12.6	120.4
Libya	Es Sider 37 ⁰	30.15	35.10	36.50		27.50	13.55	7.4	117.9
Indonesia	Es Sider 37 ⁰ Minas 34 ⁰	29,53	34.53	35.00	35,00	25.20	12.72	10.6	119.2
Venezuela	Tia Juana 26°	27.88	32.88	32.88	32.88		12.59	3.6	130.3
Gabon	Mandji 30°	29.00	34,00	34.00	35.00	28.00	12,35	·17.9	122.7
Ecuador	Oriente 30 ⁰	27.50	32.50	34,25	40.06	33.60	12,20		
Tofal OPEC ³	NA	28.59	33.64	34.13	34.82	28.30	13.03	1.0	119.4
Non-OPEC							14,00	0.5	113.6
United Kingdom	Forties 360	29.90	33,50	36. 50	39.25	29.75		. 6.9	113.0
Norway	Ekofisk 42 ⁰	30,25	34,25	37.25	40.00	32.50	14.20	9,4	121.4
Mexico	Mexican Light 33°	29.00	32.50	35.00	38.50	32.00	13.10	10.7	NA NA
"	Mexican Heavy 22°	25.00	26,50	26.50	34,50	28.00	NA 10.84	-17.6	118.6
Egypt	Sunz Riend 33°	28,004	31,00	34.00	40,50	34.00	12.81	-17.0 -4.2	122.1
Oman	Oman 34 ⁰	29,00	34.00	35.00	37.50	30.26	13.06		114.8
Syria	Suwadiyeh 250	25,00	30.00	30.00	36.03	31.39	11.64	.20.4	108.7
Malaysia	Miri 390	29.85	35.60	36,50	41.30	33.60	14.30	-11.2	112,7
Srunel	Seria 36°	30.10	35.10	36.10	40.35	33.40	14.15	.9.9	
U.S.S.R. ⁵	Export Blend 33 ⁰	29.10	31.20	35.49	39, 25	33,20	13.20	-12.3	120.5
Total Non-OPEC 3		28.72	31.72	34.35	38.54	31.94	13.44	· 10.1	113.7
Total World 3	NA	28.63	33,00	34.18	35,49	28.84	13.08	∙0.7	118,9
Unifad States	NA	28,31	32,51	34.15	36.69	29.35	13.38	∙3.5	111.6

NA=Not Applicable.

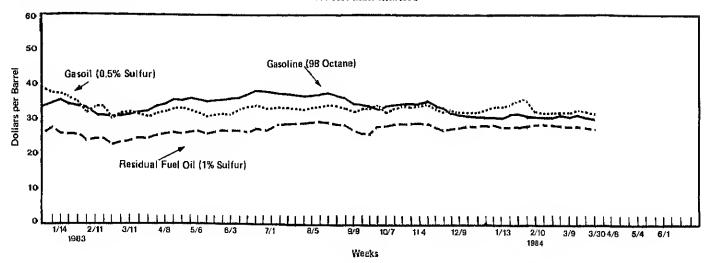
1 Official sales prices or estimated term contract prices; spot prices excluded,
2 37c higher at 80 days' credit.
3 Average prices (FOB) weighted by estimated export volume.
4 On 60 days' credit.
5 Average delivered cost to Northwest Europe.
6 Average prices (FOB) weighted by estimated import volume.
Source: a DOE, Office of International Affeirs, April 3, 1984.

a Petroleum Intelligence Weekly.

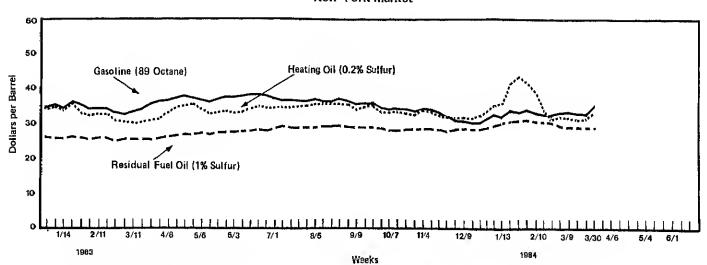
a Oil Buyers' Gulde.

a Europe Oil Prices.

Rotterdam Market



New York Market



Source: • Oil Buyers' Guide, Weekly Oil Market Product Report. Not published weeks of July 4 and December 25.
• DOE, Office of International Affairs.

			Motor (Gasoline	Gasoil/H	eating Oil ¹	Residual	Fuel Oil ²
			Rotterdam (98 Octane)	N.Y. ³ (89 Octane)	Rotterdam (0.5% Sulfur)	N.Y. ⁴ (0.2% Sulfur)	Rotterdam (1% Sulfur)	N.Y. ³ (1% Sulfur)
983	Mar	11	31.65	33,41	31.70	30.45	24.17	25.25
		18	32.30	34.57	31.64	30.56	24.92	25.25
		25	32.53	35.57	30.90	30.76	24.70	25,25
	Apr	1	33.82	36.77	31.70	31.71	25.23	25.75
	•	8	34.70	36.77	32.51	32,66	25.30	26.00
		15	36.69	37.09	33.58	34,65	25.90	26.50
		22	35.58	37.40	33.78	36.28	25.60	26.75
		29	36.75	37.19	33.51	35.49	25.98	26.75
	Mąy	6	36.28	36.88	32.51	34.64	25.98	27.00
	.v.q,	13	34.94	36.67	31.57	33.18	25.30	26.50
		20	35.35	36.98	31.97	33,28	25.75	27.00
		27	35.58	37.19	32.24	33.50	26.13	27.25
	Jun	3	35.76			33.28	25.98	
	Juff	10	30.70 25.01	37.19	32.10			27.50
			35.81	37.32	33.24	33.39	25.98	27.60
		17	36.87	37.84	33.38	34.12	25.83	28.05
	la-1	24	37.87	37.84	33.51	34.23	26.80	28.50
	Jul	1	37.16	37.42	32.84	34.02	26.28	28.35
		8	Not availab					
		15	36.81	36.62	33.18	34.23	28.00	29.00
		22	36.28	36.63	33,18	34.23	28.23	28.76
		29	36.05	36.52	33.04	34.34	28.15	28.75
	Aug	5	36.22	36.64	33.71	35.18	28.53	28.75
		12	36.40	36.52	34.18	36.28	28.68	29,00
		19	36.52	36.52	34.79	35.28	28.53	29.00
		26	36.34	36.73	34.65	35.28	28.38	29.35
	Sep	2	35.87	36.29	34.18	35.07	28.08	29.26
	• • •	9	34.47	36.99	33.58	34.65	27.33	28.75
		16	34.35	35.78	33.44	34.86	26.95	28.75
		23	34.41	35.87	33.85	35.01	26.95	28.75
		30	33.24	34.92	33.71	34.02	27.63	28.76
	Oct	7	33.41	34.29	32.51	33.60	27.40	
	OGL	14		34.82				28.00
		21	33.59		33.11	34.02	27.48	27.95
			34.17	34.40	34.05	33.28	27.78	27.90
	A1	28	34.41	33.94	33.98	33.18	27.78	28.10
	Nov	4	34.70	34.65	34.25	34.65	28.08	28.25
		11	35.05	34.25	34.65	34.12	27.86	28.75
		18	33.94	33.54	32.91	33,28	27.33	28.50
	_	25	33.59	33.08	32.84	33.18	26.43	28.25
	Dec	2	33.08	32.66	33.58	32.97	26.65	28,20
		9	32.94	31.90	33.11	33.08	27.10	28.25
		16	31.95	30.91	33.11	32.86	27.55	28,50
		23	31.65	30.98	33,11	33.70	27.66	28.5 0
		30	Not availal	ole,				
	Jan	6	30.72	32.57	33.78	35,28	28.15	29.75
984		13	30.25	32.34	33.85	36.12	27.78	30.15
		20	31.66	34.17	34.38	41.79	28.00	30.26
		27	32.24	33.34	35.12	44.10	27.86	31.25
	Feb	3	31.48	34.69	34.79	42.42	28.23	31.60
		10 °		33.64	33.61	38.01	28.60	31.00
		17		33.85	33.04	34.23	28.53	30.76
		24	31.89	33.18	33.24	32,55	28.53	30.25
	Mar	2	33.59		33.71			
	ividi	9		34.00 35.01		33.08	28,53	29.25
		16			34,38	32.86	28.30	29.25
		23	33. 8 2 33.29			32.56	28.30	29:00
		30			34.12			28.75
		30	32.77	35.87	34.12	34.76	28.00	28.75
Refers	to No. 2	Heating Oil.						·
Refers	to No. 6	OII.						
New Y	oast Cargo ork Harbo	or Reseller Bard	e Prices.		1 h.h. 4 m. 4 m			
ource:	Oil Buy	ers' Guide, Wee flice of Interna	kly Oli Market Product Repo	rt. Not published weeks o	I July 4 and December 25	le adambina was	Astrophi .	4.00
	,		Tarba			estera de en 19 com	·	
					Weekly P	etroleum Status Rep	ort/Energy Informa	ition Administr
					Weekly P	etroleum Status Rep	ort/Energy Informa	ition Administr

Weather Summary (Population Weighted Heating Degree-Days1)

Weather data reported in the Weekly Petroleum Status Report are now taken directly from a computerized system implemented by the National Oceanic and Atmospheric Administration.

The weather for the nation, as measured by population-weighted heating degree-days from July 1, 1983 through March 31, 1984, has been 2 percent cooler than normal and 12 percent cooler than last year.

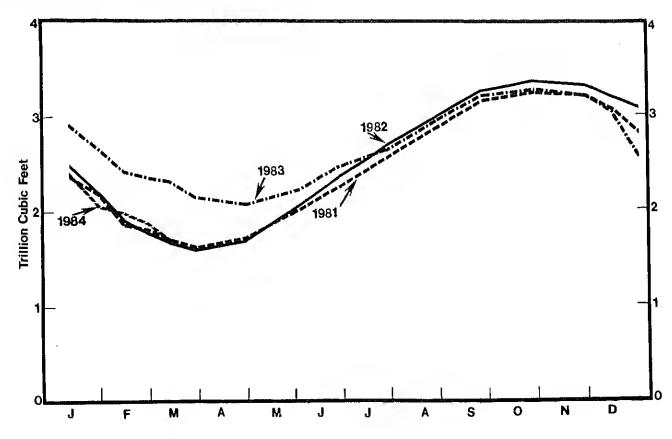
U.S. Total Heating Degree Days (Population W	Weighted) and by City
--	-----------------------

				Percent Change			
	1983-1 9 84 This	1982-1983 Last		This year	This year vs.		
	year		Kormal	Last year	Normal		
Jul y 1 - J une 30		4,500	4,694				
uly 1 - March 31	4,301	3,825	4,198	12	2		
ities							
Albuquerque	3,885	4,117	4,045	-6	-4		
Amarillo	4,337	4,130	3,878	5	12		
Asheville	4,016	3,684 2,746	3,887	9	3		
Atlanta	3,033	2,746	2,854	10	6		
Billings	5,830	5,194	6,199	12	-6		
8o i se	5,532	4,709	4,995	17	11		
Boston	4,963	4,453 5,17 6	4,883	11	2		
8uffalo	6.053	5,17 6	5,898	17	3		
Cheyenne	6,528	5,923 5,250 4,012 4,565	6.108	10	7		
Chicago	6.264	5.250	5,729	19	9		
Cincinnati	5,230	4.012	4,760	30	10		
Cleveland	5,816	4.565	5,428	2 7	7		
Columbia, SC	2,730	2,599 5,254 5,139 5,022 7,322 5,032	2,527	5	8		
Denver	5,654	5.254	5.182	8	9		
Oes Moines	6,202	5.139	5,968	21	4		
Oetroit	6,117	5.022	5,787	22	6		
Fargo	8,111	7.322	8.294	11	-ž		
Hartford	5,583	5 O 3 2	5,493	11	2		
Houston	1,802	1 578	1,520	14	19		
Jacksonville	1,499	1,578 1,440	1,387	4	8		
Kansas City	1,435 5 400	4,564	4,860	19	11		
Las Vegas	5,409 1,996	2,324	2,386	-14	-16		
	866			-13	-10 -32		
Los Angeles		1,001	1,272	-13 19	-32 5		
Memphis	3,222	2,709	3,064		-6		
Mi ami	186	137	198	36	•		
Milwaukee	6,301 7,440	5,497	6,328	15	0		
Minneapolis	/,440	6,2/0	7,183	19	4		
Montgomery	2,282	1,981	2,200	15	4		
New York	4,525	6,270 1,981 3,978 3,268	4,390	14	3		
Oklahoma City	3,875	3,268	3,520	19	10		
Omaha	6,312	5,433	5,678	16	11		
Philadelphia	4,736	4,042 1,003	4,474	17	.6		
Phoeni x	769	1,003	1,394	-23	- 45		
Pittsburgh	5,518	4,639	5,293	19	4		
Portland, ME	6.155	5,789 4,535 3,114 3,244 3,995	6,377	6	-3		
Providence	4,937	4,535	5,147	9	-4		
Raleigh	3,454	3,114	3,307	11	4		
Richmond	3.952	3,244	3,681	22	7		
St. Louis	4,813	3,995	4,553	20	6		
St. Louis Salem, OR	3,539	3.609	4,042	-2	-12		
Salt Lake City	5,123	4,776	5,075	7	1		
San Francisco	4,813 3,539 5,123 1,701	4,776 2,356	2,501	-28	-32		
Seattle	3,837	3,618	4.169	6	-8		
Shreveport	2,654	3,618 2,271	2,196	17	21		
Washington, DC	3,874	0.001	3,811	17	2		

¹ Degrée days are relative measurements of outdoor air temperature. Cooling degree-days are defined as deviations of the mean delty temperature at a sampling station above a base temperature equal to 65° F by convention. Heating degree-days are deviations of the mean delify temperature below 65° F. For example, if a weather station recorded a mean daily temperature of 78° F, cooling degree-days for that station would be 13 and no heating degree-days. A weather station recording a mean delify temperature of 40° F would report 25 heating degree-days and no cooling degree-days.

Source: o National Oceanic and Atmospheric Administration, Department of Commerce.

1.47



		Work	ing Gas	
	1981	1982	1983	1984
J	2.368	2.492	2.902	2.381
January 15	2.152	2.182	2.644	2.089
Januery 31 February 15	1.853	1.900	2.433	1.997
February 28	1.824	1.787	2.366	1.877
March 15	1.699	1.661	2,305	P1.671
	1.6 3 1	1.604	2.148	
Merch 31 April 30	1.764	1.676	2.074	
	1.977	2.0 3 4	2.222	
Mey 31	2.262	2.369	2.454	
June 30	2.568	2.704	2.695	
July 31	2.882	2.998	2.908	
August 31	3.162	3.251	3.141	
September 30	3.248	3.364	3.269	
October 31		3.309	3.174	
November 30	3. 201	3.197	3.028	
December 15	3.048		2.596	
December 31	2.817	3.071	2.050	

P=Preliminary

1 Working Gus: Ges evallable for withdrawel.
Source: o FPC-6/EIA-161, "Undarground Gas Storage Raport "

Appendix A. EIA WEEKLY DATA: SURVEY DESIGN AND ESTIMATION METHODS

The Weekly Petroleum Reporting System (WPRS) comprises five surveys: the "Weekly Refinery Report" (EIA-800); the "Weekly Bulk Terminal Report" (EIA-801); the "Weekly Product Pipelina Report" (EIA-802); the "Weekly Crude Oil Stocks Report" (EIA-803); and the "Weekly Imports Report" (EIA-804). The EIA weekly reporting system, as part of the Petroleum Supply Reporting System, wes designed to collect data similar to those collected monthly. In the WPRS, selected petroleum companies report weekly data to EIA on crude oil end petroleum product stocks, refinery inputs and production, and crude oil and petroleum product imports. On the Forms EIA-800 through EIA-803, companies report data on a custody basis. On the Form EIA-804, the importer of record reports each shipment entering the United States. Current weekly data end the most recent monthly data are used to estimate the published weekly totals.

Sample Frame

The sample of companies that report weekly in the WPRS was selected from the universe of companies that report monthly. All sempled companies report data only for facilities in the 50 States and District of Columbia. The EIA-800 sample frame includes ell petroleum refineries in the United States and its territories, industrial facilities that have crude oil distilletion capacity and produce some refined petroleum products, end bulk terminals that blend motor gasoline. The EIA-801 sample frame includes all bulk terminal facilities in the United States and its territories that have total bulk storage capacity of 50,000 barrels or more, or that receive petroleum products by tanker, barge, or pipeline. The EIA-802 sample frame includes all petroleum product pipeline companies in the United States and its territories that transport refined petroleum products, including interstate, intrastate and intracompany pipeline movements. Pipeline companies that only transport natural gas liquids are not included in the EIA-802 frame. Only those pipeline companies which transport products covered in the weekly survey are included. The EIA-803 sample frame consists of all companies which carry or store crude oil of 1,000 barrels or more. Included are gathering and trunk pipeline companies (including interstate, intrastate, and intracompany pipelines), crude oil producers, terminal operators, storars of crude oil, and companies transporting Alaskan crude oil by water. The EIA-804 sample frame Includes all importers of record of crude oil end petroleum products into the United States.

Sampling

The sampling procedure used for the weekly system is the cut-off method. In the cut-off method, companies are ranked from largest to smallest on the besis of the quentities reported during some previous period. Companies are chosen for the sample beginning with the largest and adding companies until the total sample covers about 90 percent of the total for the previous time period.

	Refiners (Refineries)	Bulk Terminels	Pipelines	Crude DII Stock Holders	Importers
Weekly Form	EIA-800	EIA-801	EIA-802	EIA-803	EIA-804
Monthly Frame Siza	152(274)	319	89	180	1208
Weekly Sample Size	63(160)	83	46	81	62

Collection Methods

Deta ere collected by mall, mailgram, telephone, Telex, and Telefax on a weekly basis. All canvassed firms end terminal operating compenies must file by 5:00 p.m. on the Monday following the close of the report period, 7 a.m., Friday. During the processing week, company corrections of the prior week's dete are also entered.

Estimetion and Imputation

After the company reports have been checked and entered into the weekly data base, ratio estimates of the weekly totals are calculated from the reported data. First, the current week's data for a given product reported by companies in that region are summed. (Call this weekly sum, W_s). Next, the most recent month's data for the product reported by those same companies are summed. (Call this monthly sum, M_s). Finelly, let M_t be the sum of the most recent month's data for the product as reported by all companies. Then, the current week's ratio estimate for that product for all companies, W_t, is given by:

$$W_t = \frac{M_t}{M_s} \cdot W_s$$

This procedure is used directly to estimate total weekly inputs to refinerles and production. To estimate stocks of finished products, the preceding procedure is followed separately for refineries, bulk terminals, and pipelines. Total estimates are formed by summing over establishment types.

Waekly imports data are highly veriable on a company-by-company basis or a week-by-week basis. Therefore, an exponentially smoothed retio has been developed. The estimate of weekly imports is the sum of the smoothed retio multiplied by the weekly values end estimates for shipments from Puerto Rico. Imports of other oils includes an edjustment from Census data for unlicensed products because of coverage differences between the monthly imports data and Census date.

Explicit imputation is done for compenies which do not respond in e given week. The imputed values ere exponentially smoothed means of recent reports from the specific company.

Response Rates

The response rete as of the day after the filing deadline is about 80 percent for the EIA-800; 75 percent for the EIA-801; 95 percent for the EIA-802; 80 percent for the EIA-803; end greater than 95 percent for the EIA-804. However, more forms ere received the next day, bringing the final response retes up. Late respondents are contacted by telephone. Nearly all of the major companies report on time. The nonresponse rate for the published estimates is usually between 2 percent and 5 percent.

Appendix B. INTERPRETATION AND DERIVATION OF AVERAGE INVENTORY LEVELS

The national inventory (stocks) graphs for total petroleum products, crude oil, motor gasoline, distillate fuel oil, and residual fuel oil in this publication include features to assist in comparing current inventory levels with past inventory levels and with judgments of critical levels. Methods used in developing the average inventory levels and minimum operating levels are described below.

Avarage Invantory Lavais

The charts displaying inventory lavels of total petroleum products (p. 7), crude oil (p. 7), motor gasoline (p. 9), distillate fuel oil (p. 11), and residual fuel oil (p. 13) provide the reader with actual inventory data compared to an "average renge" from the most recent 3-year period running from January through December or from July through June. The ranges are updeted every six months in March and October. The 3-year period is adjusted by dropping the oldest 6 months and including the most recent 6 months. The ranges also reflect seasonal variation determined from a longer time period. The seasonal factors, which determine the shape of the upper and lower curves, ere updated annually in October, using the most recent year's final monthly data.

The monthly seasonal factors are estimated by means of a seasonal adjustment technique developed at the Bureau of Census (Census X-11). The seasonal factors are assumed to be stable (i.e., unchanging from year to year) and additive (i.e., the series is deseasonalized by subtracting the seasonal factor for the eppropriate month from the reported inventory lavels). The intent of deseasonalization is to remove only annual variation from the data. Thus, deseasonalized series would contain the same trends, cyclical components, and irregulerlites as the original deta. Tha seasonal factors for total petroleum (crude and products), crude oil, distillate fuel oil, and residuel fuel oil were derived using monthly data from 1975-1982. For motor gasolina, the seasonal factors were based on monthly data from 1976 and 1978-1982. In 1977, monthly stock levels of motor gasoline stayed at the same high level for the entire year. Since there was virtually no seasonel behavior in motor gasoline stocks that year, 1977 was not used in the determination of seasonal patterns for motor gasoline stocks.

After saasonal factors are derived, data from the most recent 3-year period (Jenuary-December or July-June) are deseasonalized. The average of the deseasonalized 36-month series datermines the midpoint of the deseasonalized average band. The standard deviation of the deseasonalized 35-months is calculated adjusting for extreme data points. The upper curve of the "average range" is defined as the average plus the seasonal factors plus the standard deviation. The lower curve is defined as the average plus the seasonal factors minus the standard deviation. Thus, the width of the "average range" is twice the standard deviation. The values of the upper end lower curves are presented in the table below.

Values of Average Ranges in Inventory Graphs (Millions of Sarreis)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sap	Oct	Nov	Dec
						Lowar R	ange					
Totel Petrolaum	1121.1	1075.5	1071.2	1076.5	1089,1	1102.3	1129.4	1146.1	1167.8	1 174. 1	1177.0	1141.0
Crude Dil	350.1	348.5	355.8	359,5	356.4	356.3	354.7	346.9	346.5	354.6	353.9	344.0
Motor Gasoline	244,8	247.7	2 45.2	235,8	228.4	221.3	221,3	218.6	219,4	214.2	221.4	227.9
Distillate Fual Dil	144.5	115.4	103.8	102,6	111.6	126.1	147.1	157.7	184.1	189.0	188.7	170.9
Rasiduel Fuel Oil	59.5	51.1	50.9	51.2	55,9	5 3 .7	55.9	56.9	61.8	65.0	65,6	55.0
						Upper R	anga					
Total Patrolaum	1292.0	1245.5	1242,1	1247.4	1260.0	1273.2	1300.3	1317.1	1338.7	1345.0	1347.9	1311.9
Cruda OII	377.7	375.1	383.4	387.2	384.1	383.9	382,3	374.6	374.1	382.2	381.5	371.7
Motor Gasolina	276.0	278,9	276.4	267,0	257,6	252.6	2 52,5	249.8	250,6	245,4	252,6	259,2
Distillata Fuel Oil	191.0	161.8	150.3	149.0	158.1	172,6	193,6	214.2	230,5	235,5	235,2	217.3
Rasidual Fual Dil	82.4	74.1	73.9	74.2	78.9	76.7	78.8	79.9	84.8	0,88	88,6	0.88

Minimum Operating Inventories

The lines labeled "Minimum Operating Inventory" (MOI) on the stocks graphs for crude oil, motor gasoline, distillate fuel oil, and residual fuel oil represent estimates of those Inventory levels made by the National Petroleum Council (NPC) and published in November 1983 in "Petroleum Inventories and Storage Capacity — An Interim Report." The NPC defines the MOI as the inventory level below which operating problems and shortages would begin to appear in a defined distribution system. The NPC report presents the findings of a study which was directed by the NPC's Committee on Patroleum Invantories and Storage Capacity. MOI estimates presented in the raport were developed by consensus through a decision-making process that relied on the judgment of Committee members based on their operating experience, on historical inventory trends, and on the results of an NPC survey of companies that provide primery inventory data to the Energy Information Administration.

The astimated velues are: 'Cruda oil -- 285 million barrels; motor gasoline -- 200 million barrels; distillate fuel oil -- 105 million barrels; end residual fuel oil -- 40 million barrels.

The NPC did not devalop a minimum operating inventory level for total petrolaum stocks. The line labeled "observed minimum" on the "Stocks of Crude Oil and Patroleum Products, U.S. Total" graph is the lowest inventory level observed during the same 3-year bese period that was used in the derivation of the average inventory levels shown on the graph.

Appendix C. PROJECTION OF PRODUCT SUPPLIED FROM THE FEBRUARY 1984 SHORT-TERM ENERGY OUTLOOK

The projections of "high" and "low" petroleum demand shown in the WPSR as total product supplied, are from the Office of Energy Markets and End Use, Short-Term Energy Outlook (Outlook), February 1984.

The three forecast casas presented in the <u>Outlook</u> for 1984 through mid 1985 are based on different assumptions about tha growth of tha U.S. economy and the assoicated price of imported crude oil to U.S. refiners. In the high economic growth case, it is assumed that the price of imported crude oil falls to \$27.62 the first quarter of 1984, and then falls to \$25.00 per barrel in the second quarter, staying at this level through the first and second quarters of 1985. In the base case, it is assumed the avarage cost for imported crude to U.S. refiners remains at \$29.00 per barrel through the entire forecast period. In the low economic growth case, it is assumed that imported crude oil prices rise at about twice the U.S. rate of inflation through the forecast period.

The "high demand" case shown in the figure is formed by adding the high economic growth forecast of total demand to the square root of the sum of the squares of the increases in demand that result from the following changes in key variables: (1) a 10-percent increase in heating degree-days over the base case in the first and fourth quarters (heating season) and (2) a 15-percent increase in cooling degree-days over the base case in the second and third quarters. The "low demand" case is formed by subtracting from the low economic growth forecast the square root of the sum of the squared decreases in demand resulting from the preliminary data adjustment plus decreases from the base case assumptions for heating degree-days and cooling degree-days that are equal in magnitude (but opposite in sign) to the changes in the "high demand" case,

For detailed information on the forecast, please refer to the published report, Short-Term Energy Outlook, February 1984.

Copies of the report are available from:

National Energy Information Center Room 1F-04B, Forrastal Building 1000 Independence Avenue, S.W. Washington, D.C. 20585 Telephona 202-252-8800

Appendix D. CHANGE IN 1983 WEEKLY PETROLEUM STATUS REPORT SERIES

Some data series presented in the 1983 issues of the Weekly Petroleum Status Report (WPSR) are different from 1982 WPSR data series. The differences, which are discussed below, are the result of changes made in the 1983 weekly data collection forms of the Petroleum Supply Reporting System, a change in estimation methodology, and changes in the sample freme.

Changes from Data Forms

In 1883, weekly petroleum supply forms collect date for finished motor gasoline production, stocks, and imports. This change means that the components of 1983 WPSR motor gasoline product supplied estimates are definitionally the same as the components of the monthly product supplied estimates calculated from monthly data. In 1982, weekly forms combined imports of motor gasoline blending components with finished motor gasoline imports in a single category: total motor gasoline imports. In 1983 imports of motor gasoline finished product only. In 1983, weakly forms include imports of motor gasoline blending components in other oils imports. In the 1983 WPSR publication, the monthly other oils series for 1981 and 1982 (see p. 15) includes imports of motor gasoline blending components avaraged 38 thousand berrals a day and ranged between 18 and 50 thousand barrals per day.

Kerosane production and stocks reports are not collected on 1983 weekly forms. Consequently, in 1983, the weekly other oils stocks estimate (pgs. 3 and 6) includes kerosane. Other oils product supplied, which is calculated for the WPSR as the difference between total product supplied end the product supplied estimates of listed products, is larger in 1983 because it includes kerosane product supplied, which can no longer be calculated from weekly data (see p. 16). Kerosane stocks in 1982 ranged between 8.8 and 10.4 million berrels. The values of kerosane product supplied averaged 128 thousand barrels per day in 1982.

Change in Mathodology

In 1983, reports of crude oil usad es fuel on leases are treated as reports of crude oil product supplied, a new product supplied category. Before 1983, crude oil used in this fashion was reported as a usa of distillate fuel oil or residual fuel oil and was included in the respective product supplied calculations. Waekly astimates for product supplied made in 1983 do not include estimates for these quantities and are compared in the U.S. Petroleum Baianca (p. 3) to recest 1882 data. The monthly series for 1981 and 1982 shown on p. 16 are the quantities originally calculated and published including crude oil used as fuel. In 1982, the quantities of crude oil used directly in the distillate fuel oil product supplied and residual fuel oil product supplied calculations averaged 10 thousand barrels per day and 48 thousand barrels per day, respectively.

Changa In Stock Basis

The list of oparators of bulk terminals, pipelines, and crude stock holders required to report each month about crude oil and petroleum product stocks was updated in a regular review of the petroleum supply reporting frema during 1982. (See the article in the Petroleum Supply Monthly, March 1983 for datells.) This expansion was first incorporated in monthly date published for January 1983. The new list of operators was also used to select new samples for EIA Forms 801 (bulk terminals), 802 (pipelines), and 803 (crude stock holders) of the weekly petroleum reporting system. The new weekly sample was used for reflect the contributions of the new frame members. The revisions were done by using information about the stocks held by the new and old reporters on Decamber 31, 1982. The table below shows the new-besis stock levels for Oecember 31, 1882 which can be compared with the old frame stock levels shown on the respective pages of the WPSR. The new-basis stocks of crude oil and petroleum products, including the Stratagic Petroleum Reserve, are 2.2 percent greater than the old basis stocks.

Naw Basis Stock Levels for Crude Oil and Patroleum Products, Oacembar 31, 1982

	Percent Increase	U.S. Total	PAD 1	PAO 2 (The	PAO 3 ousands of Barrals	PAO 4	PAD 5
Crude Oil Totel Motor Gesoline Finished Gesoline Biending Components Nephtha-Type Jet Fuel Kerosene-Type Jet Fuel Distiliate Fuel Oil Residual Fuel Oil Unfinished Oils Other Oils	0.0 ¹ 3.8 4.1 2.0 28.8 2.6 3.9 3.1 0.0 7.1 2.2 ¹	643,871 244,279 202,537 41,742 7,189 32,001 185,579 68,228 105,277 175,582 1,462,017	17,550 69,397 64,116 5,281 1,384 9,626 84,681 35,685 13,656 22,073 254,053	78,558 67,135 57,903 8,232 1,310 7,310 48,221 5,383 17,784 49,714 275,413	453,687 68,016 51,182 16,834 2,367 8,004 34,821 16,698 48,209 90,142 721,054	13,491 8,669 6,086 2,473 349 838 4,051 834 2,686 3,757 34,165	80,577 31,172 23,260 7,922 1,779 5,423 13,705 8,825 24,942 8,906

¹ Calculated including stocks of crude oil in Strategic Petroleum Reserva (293,827 thousand barrels on December 31, 1982). Source: E[A, "Petroleum Supply Monthly."

Appendix E. CALCULATION OF WORLD OIL PRICES (page 19)

The weighted avarage international price of oil, shown in the "Highlights" and on page 19, is an avarage calculated using spacific crude oil prices weighted by the estimated crude oil export volume for each oil-producing country. To develop the table shown on page 19, a list of major oil producing/exporting countries was chosen. For each country, the official selling price of one or more representative cruda oils was determined by investigating a number of industry publications (i.e., "Oll Buyers' Guide," "Platt's Oilgram Prica Report," "Petroleum Intelligence Weekly," and "Europa Oil Pricas") and by contacting oil market analysts.

Than, the appropriate crude oil volumes to be used as weighting factors for each country were determined. These volumes are estimates based on a number of sources which provide data on production, consumption, and exports for these countries. Export volumes for a number of smaller producing/exporting countries, not listed in the table, are included in the weighting factors. After the export volumes had been determined, simple mathematical weighted averages were calculated to arrive at the "Total OPEC," "Total Non-OPEC," and "Total World" prices.

The average United States (FOB) import price is derived by the same basic procedure as the world oil price, that is, taking the representative official crude oil price of a specific crude oil from a particular country and weighting this price by a certain volume of crude oil. In this case, the weighting factors are the volumes of crude oil imported into the U.S. from pertinent countries. Import volumes from a number of smaller producing/exporting countries, not listed in the table, are included in the weighting factors.

Both the import and export volumes are preliminary. Due to their origin, these estimates cannot be fully verified. These volumes are updated monthly, or more frequently when changes in oil market conditions make updating appropriate.

Glossarv

- Barrals, 42-gallon barrels,
- Crude Oll. A mixture of hydrocerbons that existed in liquid phase in underground reservoirs and remeins liquid at atmospheric pressure after passing through surface seperating lecilities. Lease condensate and drips are included but topped crude oil (residuel) and other unlinished oils are excluded.
- Crude Oll input. The total crude oil put into processing units at refinaries.
- Oistillate Fuel Oils. Includes No. 1, No. 2, and No. 4 luel oils, and No. 1, No. 2, and No. 4 diasel fuels. These are light fuel oils used primarily for home heating as a diesel angine fuel (including reliroad engine luel end fuel for egricultural machinary), and for electric power generation.
- Gross Inputs. The crude oil, unfinished oils, and neturel ges plent ilquids put Into distillation units.
- Imports. Unless otherwise specified in this report, refers to gross imports. Imports of minor products ("other olis") include aviation gesoline, kerosane, unfinished oils, liqualied petroleum geses, plant condensate, petrochemical feedstocks, lube oils, waxes, special nephthas, coke, esphalt, blending components, and other miscollaneous oils.
- Jet Fuel. Includes kerosene-type jet fuel and naphthatype jet fuel. Kerosene-type jet fuel is a kerosene quelity product used primarily for commercial turbojet and turboprop aircreft engines. Nephthe-type jet luel is a luel in the heavy naphthas range used primarily for military turbojet and turboprop aircreft anginas.
- Motor Gasoline. Finished leaded gasoline, finished unleeded gasoline, and blending components in the gesoline renge. Production and imports date represent linished leaded gasoline and finished unleeded gasoline. Stocks date consist of the two types of linished gasoline and blending components. Stock change used in the calculation of motor gasoline product supplied is the change in finished motor gasolina stocks. Imports of motor gasoline blending components are contained in other oils imports.
- Operable Capacity. The meximum amount of input that can be processed by a crude oil distillation unit in a 24-hour period, making ellowences for processing limitations due to types and grades of inputs, limitations oil downstream facilities, scheduled and unscheduled downtimes, and environmental constraints. Includes any shutdown capacity that could be placed in operation within 90 days.
- Product Supplied. A value celculated for specific products which is equal to domestic production plus not imports (imports less exports), less the net increase in primery stocks. Totel products supplied is calculated as inputs to refinerlas, plus astimated relinery gelns, plus other hydrocerbon input, plus product imports, less product exports, less the nat increase in product stocks. Velues shown for "Other Oils" product supplied are the difference between totel product supplied and product supplied velues for specified products. Other oils product supplied incorporates crude oil product supplied and reclessified product adjustmant.
- Reliner Acquisition Cost of Crude Oil. The everage price paid by refiners for crude oil booked into their refineries in eccordence with eccounting procedures generally accepted and consistently and historically applied by the refiners concerned. Oomestic crude oil is that oil produced in the United States or from the outer continental shelf as delined in 43 USC Section 1331. Imported crude oil is any crude oil which is not domestic oil. The composite is the weighted average price of domestic end imported crude oil. Prices do not include price of untilished oils or SPR.

j 30.

- Rafinery Capacity Utilization. Ratio of the total amount of cruda oil, unfinished oils, and netural gas plant liquids run through crude oil distillation units to the operable capacity of these units. In the period 1979-1982 tha refinery capacity utilization for all U.S. refineries ranged between B7 percent end 65 percant. The retio for an individuel refinery mey fluctuate much more depending on the type of crude end other raw materiels processed, the type of products produced, and the operating conditions of the refinery.
- Residuel Fuel Oils, Includes No. 5 and No. 6 fuel oils which are heavy oils used primertly for electric power generation, for Industrial and commercial space heating, as a ship fuel, and for various industrial uses.
- Retail Motor Gasolina Prices. Motor gesolina prices calculated each month by the Bureau of Lebor Statistics (BLS) in conjunction with the construction of the Consumer Price Index (CPI). These prices are collected in 85 urban areas selected to represent all urban consumers—about 80 percent of the total U.S. population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchasing habits of the CPI population. Service stations in the current sample include those providing all types of service (I.e., full-, mint-, and self-service).
- Stocks. For Individuel products in WPSR, quentitles held at refineries, in pipelines, and et bulk tarminals with a capecity over 50 thousend barrels. Stocks held by product retailers and resellars, as well es tertlary stocks hald at the point of consumption, ere axcluded. Stocks of Individuel products held at gas processing plants are excluded from individual product estimetes but included in "Other Oils" estimates end "Total."
- Stock Change (Refined Products). Component of Product Supplied calculation shown on U.S. Petroleum Belence. The product stock change shown on the U.S. Petroleum Balanca Shaet lor the current 4-week period is calculated in the following way: an average deity stock change is calculated for mejor rafined products (i.e., all actuel reported stocks); this stock change is edded to an astimate for minor product stock change based on historical monthly data; a delly avarege stock change for refined product stocks for the 4-week period is than calculated. To calculate minor product stock change, the stock levals shown for other oils in the stock section of the belence sheat ere used. These other oils stock lavels are darived by: 1) computing an avaraga dally rate of stock change for each month besed on monthly deta for the pest six years; 2) using this daily rate and tha minor stock level from the most recent monthly publication to estimate the minor product stock level for the current parlod,
- Unaccounted for Crude Oll. Tarm which appears in U.S. Petrolaum Balance Shaet. It reconciles the difference between data (or astimates) about supply and dete (or estimates) about use. Its valua can be positive or negative since it is e belencing term. As it appaers in the monthly publications, it reflects the accuracy of the reported date on crude oil imports, production, stocks, refinery input, losses, exports, and trensfers (crude oil burnad directly as luel oil). It reflects the quality of the estimetes as well as the accuracy of the reported date. Because the unaccounted for crude oil figure reflects the eccuracy of. reported and astimated figures, one would expect tha figure to be larger in balances using praliminary or estimeted date end smallar in balancas using the final date. In fact, the published figures confirm this expectation. In the WPSR, four-weak averages for the previous yeer are interpolated from final monthly data, so that the uneccounted for crude oil value for the previous years is considerably smaller than that for the current period,
- United States. For the purpose of this report, the 50 states and the District of Columbia. Date for the Virgin Islands, Puerto Rico, and other U.S. territorias are not included in the U.S. totals.